



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 10
1200 Sixth Avenue
Seattle, WA 98101**

November 25, 2008

MEMORANDUM

SUBJECT: Data validation report for the Volatile Organic (VOC), Semi-Volatile Organic (SVOC), Organochlorine Pesticide (Pest) and Polychlorinated Biphenyl (PCB) analyses of samples from the Larson Air Force Base Titan Missile Facility S-2 Site Case: 37953 SDG: JAHA4

FROM: Raymond Wu, QA Chemist
Office of Environmental Assessment *11/25/08*

TO: Ken Marcy, Site Assessment Manager
Office of Environmental Cleanup – Brownfield Unit

CC: Alexis Ande, Project Manager
TechLaw, Inc.

The quality assurance (QA) review of 5 water samples collected from the above referenced site has been completed. The samples were analyzed for VOC, SVOC, Pesticide, and PCB in accordance with USEPA Contract Laboratory Program (CLP) Statement of Work (SOW) for Multi-Concentration Organic Analyses (SOM01.2) by A4 Scientific in The Woodlands, Texas. The following samples were evaluated in this validation report:

SDG: JAHA4

JAHA4 JAHA5 JAH96 JAH97 JAH98

DATA QUALIFICATIONS

The following comments refer to the laboratory performance specification outlined in the Quality Assurance Project Plan (for Larson Air Force Base Titan S-2 Facility Site, WA) dated September, 2008, USEPA CLP SOW for Organic Analysis (SOM01.2, 05/2008), and applicable criteria set forth in the USEPA CLP National Functional Guidelines for Organic Data Review (07/2007). Note that some of the analytical data reported may be qualified based on the professional judgment of the data reviewer.

The conclusions presented herein were based on the information provided for the review.

Holding Time - Acceptable

All of the samples met the extraction, Validated Time of Sample Receipt (VTSR), extraction and analytical holding time criteria for VOC, SVOC, Pesticide and PCB analyses. The samples

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were collected on 10/21/08, received by the laboratory on 10/23/08, preserved in hydrochloric acid & ice, analyzed for VOC within 14 days of sample collection & extracted within 7 days of sample collection for the SVOC, Pesticide and PCB. The samples were analyzed for SVOC, Pesticide and PCB within 40 days of sample collection. The cooler temperatures, upon the verified time of sample receipt (VTSR), were at 4°C. That was within the acceptable limits of 2-10°C. None of the data was qualified on this basis.

Instrument Performance Checks - Acceptable

Two GC & two MS systems were used for the sample analyses which met the performance checks, ion abundance criteria and retention time stability checks. All of the samples were analyzed within acceptable 12-hour QC periods. The instruments used remained stable throughout the course of analyses. None of the data was qualified on this basis.

Initial Calibrations (ICAL)

Volatile

- One Volatile ICAL was evaluated in this report. It met the technical acceptance criteria set forth by the SOW for the percent relative standard deviation (%RSDs), chromatographic resolutions, retention times, and the minimum relative response factors (RRFs) for all target compounds and surrogates with exceptions of the following:

1,4-Dioxane was lower than the required minimum RRF (0.01) and it was not detected in any associated samples. Due to the possibility of false negatives, all 1,4-dioxane results were qualified unusable, "R".

Semivolatile

- One Semivolatile ICAL was evaluated in this report. It met the technical acceptance criteria set forth by the SOW for the percent relative standard deviation (%RSD), chromatographic resolutions, retention times, and the minimum relative response factors (RRFs) for all target compounds and surrogates with exceptions of the following:
- The %RSD of 2,4-Dinitrophenol (%RSD @ 33.7) exceeded the 30% QC limit. Recalculations indicated that the instrument was not linear at the lowest standard concentration analyzed during the initial calibration. It was qualified as J/UJ.

Pesticide / PCBs

- The frequency of analysis of ICALS for pesticides and PCBs were met. All of the ICALS met the technical acceptance criteria, i.e. the percent relative standard deviation (%RSD), minimum relative response factors (RRFs), retention time windows, chromatographic resolutions, percent endrin and 4,4'-DDT breakdown (Pesticide only) for all target compounds and surrogates. None of the results was qualified on the basis of ICAL analyses.

Continuing Calibration Verification (CCV) - Acceptable

The frequency of analysis of CCV checks, chromatographic resolution, percent differences (%Ds) between the mean and daily response (calibration) factors, minimum response factors, retention time shifts and percent DDT and endrin breakdowns (pesticide analyses) were met by all target compounds and surrogates. The recoveries of the pesticide standard mixtures were within the control limits. None of the data was qualified on this basis.

Quantitation Limits - Acceptable

The sample results were adjusted for the amount extracted. All of the sample runs met the contract required quantitation limits (CRQLs). The CRQLs were based on the lowest standard concentration analyzed in the initial calibration. Target compounds that were detected at concentrations less than the CRQLs were qualified as estimated, "J". When applicable, all of the "B", "J", "P" and "E" qualifiers applied by the laboratory were crossed out by the reviewer.

Blanks - Acceptable

The frequency of analysis of blank and surrogate recovery criteria were met by all of the blanks analyzed. There were only trace amount of Chloroform detected in one of the volatile method blank; Beta, Gamma BHC & Heptachlor in pesticide blanks. Since none of the above was detected in any of the samples, none of the data was qualified on this basis.

Analytical Sequence - Acceptable

All of the standards, blanks, samples, and QC samples were analyzed in accordance with the SOW specified analytical sequence. The retention times as monitored by the internal standards (VOC, SVOC) and surrogates (VOC, SVOC, Pesticide, PCB) were within the specified RT windows. All of the sample analyses were within an acceptable 12 hour QC period and were bracketed by technically acceptable CCV check standards. None of the data was qualified on this basis.

Surrogates/Deuterated Monitoring Compound (DMC) Recoveries

Fourteen deuterated VOCs were spiked in all the samples and QCs to evaluate laboratory performance. The 14 DMCs and their corresponding recovery acceptance limits are:

"Volatile Water"

DMCs	Recovery Limits (%)	DMCs	Recovery Limits (%)
Vinyl chloride -d3 (VCL)	65-131	1,2- Dichloropropane-d6 (DPA)	79-124
Chloroethane-d5 (CLA)	71-131	Toluene-d8 (TOL)	77-121
1,1- Dichloroethene-d2 (DCE)	55-104	trans-1,3-dichloropropene-d4 (TDP)	73-121
2-Butanone-d5 (BUT)	49-155	2-Hexanone-d5 (HEX)	28-135

Chloroform-d (CLF)	78-121	1,4-Dioxane (DXE)	50-150
1,2-Dichloroethane-d4 (DCA)	78-129	1,1,2,2-Tetrachloroethane-d2 (TCA)	73-125
Benzene-d6 (BEN)	77-124	1,2-dichlorobenzene-d4 (DCZ)	80-131

All of the water volatile surrogate recoveries met the applicable recovery criteria and none of the data was qualified on this basis.

Surrogates or deuterated monitoring compounds (DMCs) are known concentrations of isotope-labeled acid and base/neutral or polynuclear hydrocarbon compounds added to the field and QC samples prior to extraction for SVOC analyses to monitor the laboratory's performance and efficiency and efficiency during sample processing, extraction and analysis. The following is the list of DMCs/surrogates added to all field and QC samples prior to sample extraction:

“SVOC Water”

DMCs	Recovery Limits (%)	DMCs	Recovery Limits (%)
Phenol-d5 (PHL)	39-106	Dimethylphthalate-d6 (DMP)	47-114
Bis(2-chloroethyl)ether-d8 (BCE)	40-105	Acenaphthylene-d8 (ACY)	41-107
2-Chlorophenol-d4 (2CP)	41-106	4-Nitrophenol-d4 (4NP)	33-116
4-Methylphenol-d8 (4MP)	25-111	Fluorene-d10 (FLR)	42-111
Nitrobenzene-d4 (NBZ)	43-108	4,6-Dinitro-2-methylphenol-d2 (NMP)	22-104
2-Nitrophenol-d4 (2NP)	40-108	Anthracene-d10 (ANC)	44-110
2,4-Dichlorophenol-d3 (DCP)	37-105	Pyrene-d10 (PYR)	52-119
4-Chloroaniline-d4 (4CA)	1-145	Benzo(a)pyrene-d12 (BAP)	32-121

All of the water semi-volatile surrogate recoveries met the applicable recovery criteria and none of the data was qualified on this basis.

“Pesticide/PCB Water”

Pesticide/PCB Surrogate (water)	Recovery Limits (%)
Tetrachloro-m-xylene (TCX)	30-150
Decachlorobiphenyl (DCB)	30-150

The recoveries of TCX and DCB were calculated and reported from two GCs & four columns used for both pesticides and PCB analyses. The TCX and DCB recoveries were within acceptable control limits in one of the

primary or confirmatory columns on two instruments. None of the data was qualified on this basis.

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

Sample JAH96 was designated for MS/MSD analyses. The frequency of analysis and percent recovery (%R) passed for each of the spiking analytes with exceptions of 2/18 spiking compounds (eg. > upper QC limit) for the semivolatiles. Because none of the spiking compounds were detected in any of the samples, none of the data was qualified by the reviewer on this basis.

Internal Standards - Acceptable

The acceptance criteria for internal standards (IS) was within +/- 30 seconds for retention time (RT) shifts and 50% to 200% of the IS area as compared to the IS RT and area of the daily continuing verification standard. All of the analyses met the IS area & RT criteria and none of the data was qualified on this basis.

Compound Identification - Acceptable

All of the detected target compounds were within the retention time windows, met the USEPA spectral matching criteria and were judged to be acceptable. None of the data was qualified on this basis.

Tentatively Identified Compounds

Chromatographic peaks in the samples with areas > 10% of the nearest Internal Standard, but were not part of the target compound list, were identified as tentatively identified compounds (TICs) at estimated concentrations, "JN"

Laboratory Contact

The laboratory was not contacted during this review.

Overall Assessment

The total number of data points evaluated was 648. As the result of the data validation, data results were qualified as follows: 0.2% of the total data points were qualified as non-detects, "U"; 0.6% of them were qualified due to calibration; 0.8% of them were qualified due to extremely low and unacceptable instrument response.

The data, as qualified, are acceptable and can be used for all purposes.

Data Qualifiers		
	U	The analyte was not detected at or above the reported result.
	J	The analyte was positively identified. The associated numerical result is an estimate.
	UJ	The analyte was not detected at or above the reported estimated result. The associated numerical value is an estimate of the quantitation limit of the analyte in this sample.
	R	The data are unusable for all purposes.
	N	There is evidence the analyte is present in this sample.
	JN	There is evidence that the analyte is present. The associated numerical result is an estimate..
	L	Low Bias
	H	High Bias
	Q	The result is estimated because the concentration is below the Contract Required Quantitation Limits (CRQLs)
	K	Unknown Bias

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHAA4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAHAA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A16

Level: (TRACE/LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg).ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	0.84	JQ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	JR

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (10/2006)

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11/25/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHA4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A16

Level: (TRACE/LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

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11/25/08

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHAA

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHAA

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-004

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A16

Level: (TRACE or LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHAS

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAHAS

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 51027A17

Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2008

% Moisture: not dec. Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	0.91	JQ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.016	JB U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	xR

Report 1,4-Dioxane for Low-Medium VOA analysis only

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11/25/08

SCM01.2 (10/2006)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHAS

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAHAS

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-005

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 51027A17

Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2008

* Moisture: not dec. Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

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11/25/08

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHAA5

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHAA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-005

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A17

Level: (TRACE or LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

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11/25/08

SOM01.2 (10/2006)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAH96

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-001

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 51027A11

Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2008

% Moisture: not dec. Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	5.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	xR

Report 1,4-Dioxane for Low-Medium VOA analysis only

R
11/25/08

SOM01.2 (10/2006)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc.Contract: EP-W-05-031Lab Code: SHEALY Case No.: 37953Mod. Ref No.: _____ SDG No.: JAH4Matrix: (SOIL/SED/WATER) WaterLab Sample ID: JJ23019-001Sample wt/vol: 5.00 (g/mL) mLLab File ID: 51027A11Level: (TRACE/LOW/MED) LOWDate Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008GC Column: DB-624 ID: 0.25 (mm)Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-01-6	Trichloroethene	0.53	JQ
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U


 11/25/08

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAH96

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-001

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A11

Level: (TRACE or LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

SOM01.2 (10/2006)

11/25/08

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAH94

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-002

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 51027A14

Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2008

% Moisture: not dec. Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg).ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorodifluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	1.0	JQ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	XR

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (10/2006)

R
11/25/08

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: SDG No.: JAHA4

Matrix: (SOIL/SED/WATER)Water

Lab Sample ID: JJ23019-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A14

Level: (TRACE/LOW/MED)LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	o-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

R
11/25/08

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAH94

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-002

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A14

Level: (TRACE or LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

R
11/25/08

SOM01.2 (10/2006)

1A - FORM I VOA-1
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHAA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A15

Level: (TRACE/LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg).ug/L	Q
75-71-8	Dichlorodifluoromethane	5.0	U
74-87-3	Chloromethane	5.0	U
75-01-4	Vinyl chloride	5.0	U
74-83-9	Bromomethane	5.0	U
75-00-3	Chloroethane	5.0	U
75-69-4	Trichlorofluoromethane	5.0	U
75-35-4	1,1-Dichloroethene	0.86	JQ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	5.0	U
79-20-9	Methyl acetate	5.0	U
75-09-2	Methylene chloride	5.0	U
156-60-5	trans-1,2-Dichloroethene	5.0	U
1634-04-4	Methyl tert-butyl ether	5.0	U
75-34-3	1,1-Dichloroethane	5.0	U
156-59-2	cis-1,2-Dichloroethene	5.0	U
78-93-3	2-Butanone	10	U
74-97-5	Bromochloromethane	5.0	U
67-66-3	Chloroform	5.0	U
71-55-6	1,1,1-Trichloroethane	5.0	U
110-82-7	Cyclohexane	5.0	U
56-23-5	Carbon tetrachloride	5.0	U
71-43-2	Benzene	5.0	U
107-06-2	1,2-Dichloroethane	5.0	U
123-91-1	1,4-Dioxane	100	XR

RJ
11/25/08

Report 1,4-Dioxane for Low-Medium VOA analysis only

SOM01.2 (10/2006)

1B - FORM I VOA-2
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAH98

Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-003

Sample wt/vol: 5.00 (g/mL) mL Lab File ID: 51027A15

Level: (TRACE/LOW/MED) LOW Date Received: 10/23/2008

% Moisture: not dec. Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

Purge Volume: 5.0 (mL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
79-01-6	Trichloroethene	5.0	U
108-87-2	Methylcyclohexane	5.0	U
78-87-5	1,2-Dichloropropane	5.0	U
75-27-4	Bromodichloromethane	5.0	U
10061-01-5	cis-1,3-Dichloropropene	5.0	U
108-10-1	4-Methyl-2-pentanone	10	U
108-88-3	Toluene	5.0	U
10061-02-6	trans-1,3-Dichloropropene	5.0	U
79-00-5	1,1,2-Trichloroethane	5.0	U
127-18-4	Tetrachloroethene	5.0	U
591-78-6	2-Hexanone	10	U
124-48-1	Dibromochloromethane	5.0	U
106-93-4	1,2-Dibromoethane	5.0	U
108-90-7	Chlorobenzene	5.0	U
100-41-4	Ethylbenzene	5.0	U
95-47-6	c-Xylene	5.0	U
179601-23-1	m,p-Xylene	5.0	U
100-42-5	Styrene	5.0	U
75-25-2	Bromoform	5.0	U
98-82-8	Isopropylbenzene	5.0	U
79-34-5	1,1,2,2-Tetrachloroethane	5.0	U
541-73-1	1,3-Dichlorobenzene	5.0	U
106-46-7	1,4-Dichlorobenzene	5.0	U
95-50-1	1,2-Dichlorobenzene	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	5.0	U
120-82-1	1,2,4-Trichlorobenzene	5.0	U
87-61-6	1,2,3-Trichlorobenzene	5.0	U

R.S.
11/25/08

1J - FORM I VOA-TIC
 VOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAH94

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-003

Sample wt/vol: 5.00 (g/mL) mL

Lab File ID: 51027A15

Level: (TRACE or LOW/MED) LOW

Date Received: 10/23/2008

% Moisture: not dec.

Date Analyzed: 10/27/2008

GC Column: DB-624 ID: 0.25 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

Purge Volume: 5.0 (mL)

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
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23				
24				
25				
26				
27				
28				
29				
30				
E966796 ¹	Total Alkanes	N/A		

¹EPA-designated Registry Number.

R
11/25/08

SOM01.2 (10/2006)

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHAA4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: SDG No.: JAHAA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-004

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111109

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: Decanted: (Y/N)

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

SOM01.2 (10/2006) 11/25/08

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHA4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: SDG No.: JAHA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-004

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111109

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: Decanted: (Y/N)

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L)	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine ¹	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(q,h,i)perylene-	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹Cannot be separated from Diphenylamine

R
11/25/08

1K - FORM I SV-TIC
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAHA4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-004

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111109

Level: (TRACE or LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

R
SOM01.2 (10/2006) 11/25/08

1D - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: SDG No.: JAHA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-001

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111104

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: Decanted: (Y/N)

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH:

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

1E - FORM I SV-2
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc.Contract: EP-W-05-031Lab Code: SHEALY Case No.: 37953Mod. Ref No.: SDG No.: JAHA4Matrix: (SOIL/SED/WATER) WaterLab Sample ID: JJ23019-001Sample wt/vol: 1000 (g/mL) mLLab File ID: 111104Level: (LOW/MED) LOWExtraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008Concentrated Extract Volume: 1000 (uL)Date Extracted: 10/27/2008Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 11/11/2008GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L)	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine ¹	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹ Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAH96

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-001

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111104

Level: (TRACE or LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
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29				
30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

RJ
 SOM01.2 (10/2006) *11/25/08*

1D - FORM I SV-1
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAH4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-002

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111107

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg Ma/L)	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U

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SOM01.2 (10/2006) 11/25/08

1E - FORM I SV-2
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: SDG No.: JAHA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-002

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111107

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: Decanted: (Y/N)

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH: Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg ug/L)	Q
51-28-5	2,4-Dinitrophenol	10	UTK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine ¹	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	0.57	JQ
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹ Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS, DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHAA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-002

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111107

Level: (TRACE or LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
05				
06				
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30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.

RJ
11/25/08

SOM01.2 (10/2006)

ID - FORM I SV-1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc.Contract: EP-W-05-031Lab Code: SHEALY Case No.: 37953Mod. Ref No.: _____ SDG No.: JAH98Matrix: (SOIL/SED/WATER) WaterLab Sample ID: JJ23019-003Sample wt/vol: 1000 (g/mL) mLLab File ID: 111108Level: (LOW/MED) LOWExtraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008Concentrated Extract Volume: 1000 (uL)Date Extracted: 10/27/2008Injection Volume: 1.0 (uL) GPC Factor: 1.0Date Analyzed: 11/11/2008GPC Cleanup: (Y/N) N pH: _____Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)ug/L	Q
100-52-7	Benzaldehyde	5.0	U
108-95-2	Phenol	5.0	U
111-44-4	Bis(2-Chloroethyl)ether	5.0	U
95-57-8	2-Chlorophenol	5.0	U
95-48-7	2-Methylphenol	5.0	U
108-60-1	2,2'-Oxybis(1-chloropropane)	5.0	U
98-86-2	Acetophenone	5.0	U
106-44-5	4-Methylphenol	5.0	U
621-64-7	N-Nitroso-di-n-propylamine	5.0	U
67-72-1	Hexachloroethane	5.0	U
98-95-3	Nitrobenzene	5.0	U
78-59-1	Isophorone	5.0	U
88-75-5	2-Nitrophenol	5.0	U
105-67-9	2,4-Dimethylphenol	5.0	U
111-91-1	Bis(2-Chloroethoxy)methane	5.0	U
120-83-2	2,4-Dichlorophenol	5.0	U
91-20-3	Naphthalene	5.0	U
106-47-8	4-Chloroaniline	5.0	U
87-68-3	Hexachlorobutadiene	5.0	U
105-60-2	Caprolactam	5.0	U
59-50-7	4-Chloro-3-methylphenol	5.0	U
91-57-6	2-Methylnaphthalene	5.0	U
77-47-4	Hexachlorocyclopentadiene	5.0	U
88-06-2	2,4,6-Trichlorophenol	5.0	U
95-95-4	2,4,5-Trichlorophenol	5.0	U
92-52-4	1,1'-Biphenyl	5.0	U
91-58-7	2-Chloronaphthalene	5.0	U
88-74-4	2-Nitroaniline	10	U
131-11-3	Dimethylphthalate	5.0	U
606-20-2	2,6-Dinitrotoluene	5.0	U
208-96-8	Acenaphthylene	5.0	U
99-09-2	3-Nitroaniline	10	U
83-32-9	Acenaphthene	5.0	U


 11/25/08 SOM01.2 (10/2006)

1E - FORM I SV-2
SEMICVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAH98

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-003

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111108

Level: (LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) uL/L	Q
51-28-5	2,4-Dinitrophenol	10	UJK
100-02-7	4-Nitrophenol	10	U
132-64-9	Dibenzofuran	5.0	U
121-14-2	2,4-Dinitrotoluene	5.0	U
84-66-2	Diethylphthalate	5.0	U
86-73-7	Fluorene	5.0	U
7005-72-3	4-Chlorophenyl-phenylether	5.0	U
100-01-6	4-Nitroaniline	10	U
534-52-1	4,6-Dinitro-2-methylphenol	10	U
86-30-6	N-Nitrosodiphenylamine	5.0	U
95-94-3	1,2,4,5-Tetrachlorobenzene	5.0	U
101-55-3	4-Bromophenyl-phenylether	5.0	U
118-74-1	Hexachlorobenzene	5.0	U
1912-24-9	Atrazine	5.0	U
87-86-5	Pentachlorophenol	10	U
85-01-8	Phenanthrene	5.0	U
120-12-7	Anthracene	5.0	U
86-74-8	Carbazole	5.0	U
84-74-2	Di-n-butylphthalate	5.0	U
206-44-0	Fluoranthene	5.0	U
129-00-0	Pyrene	5.0	U
85-68-7	Butylbenzylphthalate	5.0	U
91-94-1	3,3'-Dichlorobenzidine	5.0	U
56-55-3	Benzo(a)anthracene	5.0	U
218-01-9	Chrysene	5.0	U
117-81-7	Bis(2-ethylhexyl)phthalate	5.0	U
117-84-0	Di-n-octylphthalate	5.0	U
205-99-2	Benzo(b)fluoranthene	5.0	U
207-08-9	Benzo(k)fluoranthene	5.0	U
50-32-8	Benzo(a)pyrene	5.0	U
193-39-5	Indeno(1,2,3-cd)pyrene	5.0	U
53-70-3	Dibenzo(a,h)anthracene	5.0	U
191-24-2	Benzo(g,h,i)perylene	5.0	U
58-90-2	2,3,4,6-Tetrachlorophenol	5.0	U

¹ Cannot be separated from Diphenylamine

1K - FORM I SV-TIC
 SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
 TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAH98

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-003

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 111108

Level: (TRACE or LOW/MED) LOW

Extraction: (Type) CONT

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Concentrated Extract Volume: 1000 (uL)

Date Extracted: 10/27/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Date Analyzed: 11/11/2008

GPC Cleanup: (Y/N) N pH: _____

Dilution Factor: 1.0

CONCENTRATION UNITS: (ug/L or ug/Kg) ug/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
01				
02				
03				
04				
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29				
30				
E966796 ²	Total Alkanes	N/A		

²EPA-designated Registry Number.


11/25/08

SOM01.2 (10/2006)

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHAA4

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHAA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-004

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 032F3201

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Extraction: (Type) CONT

Date Extracted: 10/27/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) <u>ug/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 0.12	PB U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.015	JQ
76-44-8	Heptachlor	0.050 0.082	JB U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10 0.0055	JP U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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11/26/08

SOM01.2 (10/2006)

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: _____ SDG No.: JAHA4

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-001

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 029F2901

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Extraction: (Type) CONT

Date Extracted: 10/27/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg): <u>ug/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 0.14	PB U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050	U
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieledrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

Ron
11/26/08

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: SDG No.: JAH94

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-002

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 030F3001

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Extraction: (Type) CONT

Date Extracted: 10/27/2008

Concentrated Extract Volume: 10000 (uL)

Date Analyzed: 11/05/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg): <u>ug/L</u>	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 0.044	JPB U
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.0070	JQ
76-44-8	Heptachlor	0.050 0.0072	JPB U
309-00-2	Aldrin	0.050 0.0053	JP U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Die�drin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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11/26/08

1G - FORM I PEST
PESTICIDE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAHA4
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-003
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: 031F3101
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 10/23/2008
 Extraction: (Type) CONT Date Extracted: 10/27/2008
 Concentrated Extract Volume: 10000 (uL) Date Analyzed: 11/05/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
319-84-6	alpha-BHC	0.050	U
319-85-7	beta-BHC	0.050 0.013	JPB11
319-86-8	delta-BHC	0.050	U
58-89-9	gamma-BHC (Lindane)	0.050	U
76-44-8	Heptachlor	0.050 0.0069	-JB/J
309-00-2	Aldrin	0.050	U
1024-57-3	Heptachlor epoxide	0.050	U
959-98-8	Endosulfan I	0.050	U
60-57-1	Dieldrin	0.10	U
72-55-9	4, 4'-DDE	0.10	U
72-20-8	Endrin	0.10	U
33213-65-9	Endosulfan II	0.10	U
72-54-8	4, 4'-DDD	0.10	U
1031-07-8	Endosulfan sulfate	0.10	U
50-29-3	4, 4'-DDT	0.10	U
72-43-5	Methoxychlor	0.50	U
53494-70-5	Endrin ketone	0.10	U
7421-93-4	Endrin aldehyde	0.10	U
5103-71-9	alpha-Chlordane	0.050	U
5103-74-2	gamma-Chlordane	0.050	U
8001-35-2	Toxaphene	5.0	U

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11/26/08

SOM01.2 (10/2006)

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAHAA4

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAHAA4
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-004
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: 028F2801
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 10/23/2008
 Extraction: (Type) CONT Date Extracted: 10/28/2008
 Concentrated Extract Volume: 10000.0 (uL) Date Analyzed: 11/10/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U


 11/26/08

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH96

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: _____ SDG No.: JAH4
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-001
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: 023F2301
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 10/23/2008
 Extraction: (Type) CONT Date Extracted: 10/28/2008
 Concentrated Extract Volume: 10000.0 (uL) Date Analyzed: 11/10/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

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11/26/08

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH97

Lab Name: Shealy Environmental Services, Inc.

Contract: EP-W-05-031

Lab Code: SHEALY Case No.: 37953

Mod. Ref No.: SDG No.: JAH94

Matrix: (SOIL/SED/WATER) Water

Lab Sample ID: JJ23019-002

Sample wt/vol: 1000 (g/mL) mL

Lab File ID: 026F2601

% Moisture: _____ Decanted: (Y/N) _____

Date Received: 10/23/2008

Extraction: (Type) CONT

Date Extracted: 10/28/2008

Concentrated Extract Volume: 10000.0 (uL) Date Analyzed: 11/10/2008

Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y

Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

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11/26/08

1H - FORM I ARO
AROCLOR ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

JAH98

Lab Name: Shealy Environmental Services, Inc. Contract: EP-W-05-031
 Lab Code: SHEALY Case No.: 37953 Mod. Ref No.: SDG No.: JAH4
 Matrix: (SOIL/SED/WATER) Water Lab Sample ID: JJ23019-003
 Sample wt/vol: 1000 (g/mL) mL Lab File ID: 027F2701
 % Moisture: _____ Decanted: (Y/N) _____ Date Received: 10/23/2008
 Extraction: (Type) CONT Date Extracted: 10/28/2008
 Concentrated Extract Volume: 10000.0 (uL) Date Analyzed: 11/10/2008
 Injection Volume: 1.0 (uL) GPC Factor: 1.0 Dilution Factor: 1.0
 GPC Cleanup: (Y/N) N pH: _____ Sulfur Cleanup: (Y/N) Y
 Acid Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	Q
12674-11-2	Aroclor-1016	1.0	U
11104-28-2	Aroclor-1221	1.0	U
11141-16-5	Aroclor-1232	1.0	U
53469-21-9	Aroclor-1242	1.0	U
12672-29-6	Aroclor-1248	1.0	U
11097-69-1	Aroclor-1254	1.0	U
11096-82-5	Aroclor-1260	1.0	U
37324-23-5	Aroclor-1262	1.0	U
11100-14-4	Aroclor-1268	1.0	U

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11/26/08



USEPA Contract Laboratory Program
Inorganic Traffic Report & Chain of Custody Record

Case No: 37953
DAS No:

R

Region:	10	Date Shipped:	10/22/2008	Chain of Custody Record		Sampler Signature:
Project Code:	TEC-897A	Carrier Name:	FedEx	Relinquished By (Date / Time)		Received By (Date / Time)
Account Code:		Airbill:	862304166136	1		
CERCLIS ID:	WAN001002314	Shipped to:	Datachem Laboratories, Inc. 960 West LeVoy Drive Salt Lake City UT 84123 (801) 266-7700	2		
Spill ID:				3		
Site Name/State:	Larson AFB Titan Missile Facility S2/WA			4		
Project Leader:	Lesa Nelson					
Action:	Listing Site Inspection					
Sampling Co:	TechLaw Inc.					

INORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	ORGANIC SAMPLE No.	QC Type
MJAH96	Ground Water/ Lesa Nelson	L/G	TM (21)	1 (HNO3), 2 (HNO3), 3 (HNO3) (3)	08434000	S: 10/21/2008 12:20	JAH96	—
MJAH97	Ground Water/ Anna Cornelius	L/G	TM (21)	(HNO3) (1)	08434001	S: 10/21/2008 13:30	JAH97	—
MJAH98	Ground Water/ Bryan Berna	L/G	TM (21)	(HNO3) (1)	08434002	S: 10/21/2008 15:00	JAH98	—
MJAH4	Ground Water	L/G	TM (21)	(HNO3) (1)	08434007	S: 10/21/2008 13:30	JAH4	Field Duplicate

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: MJAH96	Additional Sampler Signature(s): 	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TM = CLP TAL Total Metals

TR Number: 10-043013577-102208-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

703/818-4602

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F2V5.1.047 Page 1 of 1



USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 37953

DAS No:

R

Region: 10	Date Shipped: 10/22/2008	Chain of Custody Record		Sampler Signature: <i>[Signature]</i>
Project Code: TEC-897A	Carrier Name: FedEx 862304165574, 862304165585	Relinquished By (Date / Time)		Received By (Date / Time)
Account Code: WAN001002314	Shipped to: Shealy Environmental 106 Vantage Point Drive Cayce SC 29033 (803) 791-9700	1 <i>[Signature] 10/22/08 16:30</i>		<i>[Signature] 10/22/08</i>
CERCLIS ID: WAN001002314		2		
Spill ID:		3		
Site Name/State: Larson AFB Titan Missile Facility S2/WA		4		
Project Leader: Lesa Nelson				
Action: Listing Site Inspection				
Sampling Co: TechLaw Inc.				

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
JAH96	Ground Water/ Lesa Nelson	L/G	BNA (21), PEST (21), VOA (21)	10 (Ice Only), 11 (Ice Only), 12 (Ice Only), 13 (Ice Only), 14 (HCL), 15 (HCL), 16 (HCL), 4 (Ice Only), 5 (Ice Only), 6 (Ice Only), 7 (Ice Only), 8 (Ice Only), 9 (Ice Only), AA (HCL), BB (HCL), CC (HCL), D (Ice Only), DD (HCL), E (Ice Only), F (Ice Only), G (Ice Only), H (Ice Only), I (Ice Only), P (Ice Only), Q (Ice Only), V (HCL), W (HCL) (27)	08434000 <i>S2-G-W-01</i>	S: 10/21/2008 12:20	MJAH96	-
JAH97	Ground Water/ Anna Cornelious	L/G	BNA (21), PEST (21), VOA (21)	18 (Ice Only), 19 (Ice Only), 20 (Ice Only), 21 (Ice Only), 22 (Ice Only), 23 (Ice Only), 24 (HCL), 25 (HCL), 26 (HCL) (9)	08434001 <i>S2-G-W-02</i>	S: 10/21/2008 13:30	MJAH97	-
JAH98	Ground Water/ Bryan Berna	L/G	BNA (21), PEST (21), VOA (21)	28 (Ice Only), 29 (Ice Only), 30 (Ice Only), 31 (Ice Only), 32 (Ice Only), 33 (Ice Only), 34 (HCL), 35 (HCL), 36 (HCL) (9)	08434002 <i>S2-G-W-03</i>	S: 10/21/2008 15:00	MJAH98	-
JAH94	Ground Water	L/G	BNA (21), PEST (21), VOA (21)	38 (Ice Only), 39 (Ice Only), 40 (Ice Only), 41 (Ice Only), 42 (Ice Only), 43 (Ice Only), 44 (HCL), 45 (HCL), 46 (HCL) (9)	08434007 <i>S2-G-W-04</i>	S: 10/21/2008 13:30	MJAH94	Field Duplicate

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: JAH96	Additional Sampler Signature(s): <i>[Signature]</i>	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles

TR Number: 10-043013577-102208-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax

703/818-4600

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USEPA Contract Laboratory Program
Organic Traffic Report & Chain of Custody Record

Case No: 37953
DAS No:

R

Region:	10	Date Shipped:	10/22/2008	Chain of Custody Record		Sampler Signature:
Project Code:	TEC-897A	Carrier Name:	FedEx	Relinquished By	(Date / Time)	Received By
Account Code:		Airbill:	862304165574; 862304165585	1	Franki Jewell 10/22/08 1630	Jed Ex 10/22/08
CERCLIS ID:	WAN001002314	Shipped to:	Shealy Environmental 106 Vantage Point Drive Cayce SC 29033 (803) 791-9700	2		
Spill ID:				3		
Site Name/State:	Larson AFB Titan Missile Facility S2/WA			4		
Project Leader:	Lesa Nelson					
Action:	Listing Site Inspection					
Sampling Co:	TechLaw Inc.					

ORGANIC SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	INORGANIC SAMPLE No.	QC Type
JAHAA5	Surface Water/ Franki Jewell	L/G	VOA (21)	47 (HCL), 48 (HCL), 49 (HCL) (3)	S2-TB-01	S: 10/21/2008 16:45		Trip Blank

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: JAH96	Additional Sampler/Signature(s): 	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced?
BNA = CLP TCL Semivolatiles, PEST = CLP TCL Pesticide/PCBs, VOA = CLP TCL Volatiles			

TR Number: 10-043013577-102208-0002

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 37953

Client No:

R

Region:	10	Date Shipped:	10/21/2008	Chain of Custody Record		Sampler Signature:
Project Code:	TEC-897A	Carrier Name:	FedEx			
Account Code:		Airbill:	862304165552			
CERCLIS ID:	WAN001002314	Shipped to:	Test America 4955 Arvada, CO 80002 (303) 736-0100			
Spill ID:						
Site Name/State:	Larson AFB Titan Missile Facility S2/WA					
Project Leader:	Lesa Nelson					
Action:	Listing Site Inspection					
Sampling Co:	TechLaw Inc.					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No./ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
08434000 * S2-GW-01 000	Ground Water/ Lesa Nelson	L/G	UDMH (21)	(Ice Only) (1)	08434000	S: 10/21/2008 12:20	-
08434001 * S2-GW-02 000	Ground Water/ Anna Cornelius	L/G	UDMH (21)	(Ice Only) (1)	08434001	S: 10/21/2008 13:30	-
08434002 * S2-GW-03 000	Ground Water	L/G	UDMH (21)	(Ice Only) (1)	08434002	S: 10/21/2008 15:00	-

Shipment for Case Complete? N	Sample(s) to be used for laboratory QC: S2-GW-01	Additional Sampler Signature(s): 	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High UDMH = Unsymmetrical Dimethyl Hydrazine	Type/Designate: Composite = C, Grab = G	Shipment Iced?

TR Number: 10-043013577-102108-0001

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax 703/818-4600

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USEPA Contract Laboratory Program
Generic Chain of Custody

Reference Case: 37953

Client No:

R

Region:	10	Date Shipped:	10/23/2008	Chain of Custody Record		Sampler Signature:
Project Code:	TEC-897A	Carrier Name:	FedEx			
Account Code:		Airbill:	862310342714; 2725; 2736; 27			
CERCLIS ID:	WAN001002314	Shipped to:	EPA Manchester Environmental Laboratory 7411 Beach Drive East Port Orchard WA 98366 (360) 871-8760			
Spill ID:				1		
Site Name/State:	Larson AFB Titan Missile Facility S2/WA			2		
Project Leader:	Lesa Nelson			3		
Action:	Listing Site Inspection			4		
Sampling Co:	TechLaw Inc.					

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type	
08434000	Ground Water/ Lesa Nelson	L/G	1,4-Diox (21), NDMA (21), Perc (21), TPH-Dx (21), TPH-Gx (21)	MEL-1 - W1 (Na2SO3), MEL-10 - N4 (Ice Only), MEL-11 - N5 (Ice Only), MEL-12 - N6 (Ice Only), MEL-13 - N10 (Ice Only), MEL-14 - N11 (Ice Only), MEL-15 - N12 (Ice Only), MEL-16 - N7 (Ice Only), MEL-17 - N8 (Ice Only), MEL-18 - N9 (Ice Only), MEL-19 - N13 (Ice Only), MEL-2 - W2 (Na2SO3), MEL-20 - N14 (Ice Only), MEL-21 - N15 (Ice Only), MEL-22 - N16 (Ice Only), MEL-23 - N17 (Ice Only), MEL-24 - N18 (Ice Only), MEL-25 - A1 (HCL), MEL-26 - A2 (HCL), MEL-27 - A3 (HCL), MEL-28 - A4 (HCL), MEL-29 - A5 (HCL), MEL-3 - W3 (Na2SO3), MEL-30 - A6 (HCL), MEL-4 - W4 (Na2SO3), MEL-5 - W5 (Na2SO3), MEL-6 - W6 (Na2SO3), MEL-7 - N1 (Ice Only), MEL-8 - N2 (Ice Only), MEL-9 - N3 (Ice Only) (30)	08434000	S: 10/21/2008 12:20	SQ-GW-01	-

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: 08434000	Additional Sampler Signature(s): 	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

1,4-Diox = 1,4-Dioxane, NDMA = Nitrosodimethylamine, Perc = Perchlorate, TPH-Dx = TPH-Diesel Range Organics, TPH-Gx = TPH-Gasoline Range Organics

TR Number: 10-043013577-102208-0004

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

Send Copy to: Sample Management Office, Attn: Heather Bauer, CSC, 15000 Conference Center Dr., Chantilly, VA 20151-3819; Phone 703/818-4200; Fax
n21019 4600

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USEPA Contract Laboratory Program
Generic Chain of Custody

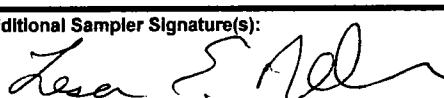
Reference Case: 37953

Client No:

R

Region:	10	Date Shipped:	10/23/2008	Chain of Custody Record		Sampler Signature:
Project Code:	TEC-897A	Carrier Name:	FedEx	Relinquished By		Received By
Account Code:		Airbill:	862310342714; 2725; 2736; 27	1		
CERCLIS ID:	WAN001002314	Shipped to:	EPA Manchester Environmental Laboratory 7411 Beach Drive East Port Orchard WA 98366 (360) 871-8760	2		
Spill ID:				3		
Site Name/State:	Larson AFB Titan Missile Facility S2/WA			4		
Project Leader:	Lesa Nelson		<th></th> <th></th> <th></th>			
Action:	Listing Site Inspection		<th></th> <th></th> <th></th>			
Sampling Co:	TechLaw Inc.		<th></th> <th></th> <th></th>			

SAMPLE No.	MATRIX/ SAMPLER	CONC/ TYPE	ANALYSIS/ TURNAROUND	TAG No/ PRESERVATIVE/ Bottles	STATION LOCATION	SAMPLE COLLECT DATE/TIME	QC Type
08434001	Ground Water/ Anna Cornelious	L/G	1,4-Diox (21), NDMA (21), Perc (21), TPH-Dx (21), TPH-Gx (21)	MEL-31 - W1 (Na ₂ SO ₃), MEL-32 - W2 (Na ₂ SO ₃), MEL-33 - N1 (Ice Only), MEL-34 - N2 (Ice Only), MEL-35 - N3 (Ice Only), MEL-36 - N4 (Ice Only), MEL-37 - N5 (Ice Only), MEL-38 - N6 (Ice Only), MEL-39 - A1 (HCL), MEL-40 - A2 (HCL) (10)	08434001	S: 10/21/2008 13:30 S2-GW-Ø2	-
08434002	Ground Water/ Bryan Berna	L/G	1,4-Diox (21), NDMA (21), Perc (21), TPH-Dx (21), TPH-Gx (21)	MEL-40 - W1 (Na ₂ SO ₃), MEL-41 - W2 (Na ₂ SO ₃), MEL-42 - N1 (Ice Only), MEL-43 - N2 (Ice Only), MEL-44 - N3 (Ice Only), MEL-45 - N4 (Ice Only), MEL-46 - N5 (Ice Only), MEL-47 - N6 (Ice Only), MEL-48 - A1 (HCL), MEL-49 - A2 (HCL) (10)	08434002	S: 10/21/2008 15:00 S2-GW-Ø3	-
08434007	Ground Water/ Sam Walker	L/G	1,4-Diox (21), NDMA (21), Perc (21), TPH-Dx (21), TPH-Gx (21)	MEL-50 - W1 (Na ₂ SO ₃), MEL-51 - W2 (Na ₂ SO ₃), MEL-53 - N1 (Ice Only), MEL-54 - N2 (Ice Only), MEL-55 - N3 (Ice Only), MEL-56 - N4 (Ice Only), MEL-57 - N5 (Ice Only), MEL-58 - N6 (Ice Only), MEL-59 - A1 (HCL), MEL-60 - A2 (HCL) (10)	08434007	S: 10/21/2008 13:30 S2-GW-Ø4	Field Duplicate

Shipment for Case Complete? Y	Sample(s) to be used for laboratory QC: 08434000	Additional Sampler Signature(s): 	Chain of Custody Seal Number:
Analysis Key:	Concentration: L = Low, M = Low/Medium, H = High 1,4-Diox = 1,4-Dioxane, NDMA = Nitrosodimethylamine, Perc = Perchlorate, TPH-Dx = TPH-Diesel Range Organics, TPH-Gx = TPH-Gasoline Range Organics	Type/Designate: Composite = C, Grab = G	Shipment Iced? _____

TR Number: 10-043013577-102208-0004

PR provides preliminary results. Requests for preliminary results will increase analytical costs.

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